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Step-by-Step Guide: Installing Android TV on a Bootable USB

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Table of Contents

As smart TVs continue to gain traction, several users have shifted to using Android TV because of the vast array of apps and streaming services available. Placing an Android TV into a bootable USB allows for a portable option that can enable smart TV capabilities without having to purchase new devices. This guide contains easy-to-follow steps for how to accomplish this.

What You Need to Get Started

Before you begin, ensure that you have the following items:

- A laptop or a computer
- A USB with no less than 8 GB capacity
- Reliable and accessible internet
- An Android TV image file (found on the official site)
- A tool to make a USB bootable, such as Rufus (for Windows) or Etcher (for both macOS and Linux)

Step 1: Download the Android TV Image File

You can download the most recent Android TV image file from the official website or any other source you trust. Always double-check to make sure the version is suitable for your system.

Step 2: Download and Install a Bootable USB Tool

For writing the Android TV image file onto the USB, you will need to download some software to create a bootable USB. We recommend Rufus for Windows and Etcher for macOS and Linux. As always, feel free to Google alternatives.

How To Install Rufus For Windows

- First, go to the official website of Rufus.
- Second, pick the most recent version.

Finally, execute the installer and comply with the instructions that appear on the screen.

- If you are using Etcher on macOS and Linux
- To start, go to the official website for Etcher.
- Then open the version that fits your system.
- Next, you can install it by complying with the provided location.

Step 3: Prepare the USB Drive

- First, put your USB drive into the computer.

- Now launch the USB bootable tool (Rufus or Etcher).
- From the available list of drives, choose your USB drive.
- To ensure compatibility, format the drive to FAT32.

It is important to note that USB formatting removes all saved data. Thus, make a copy of the important files.

Step 4: Write the Image of Android TV Into the USB

- To write the image of the Android TV into the USB, launch the tool first.
- Then load the Android TV image file you have downloaded previously.
- Next, make sure the USB drive is set as the destination.

Now, push the “Start” or “Flash” button to begin the writing process and wait for the process to finish.

Step 5: Fill In The Required Configuration For The BIOS Settings

- To ensure the computer boots from the USB, adjust the BIOS settings.
- To do this, restart your computer, and then while it is powering up, continually press the BIOS key (which is usually either F2, F12, Delete, or Esc) until you are out of the boot screen.
- After, go to the “Boot” menu.
- And then set the USB drive as the first running device.
- Do not forget to save your changes and exit the BIOS.

Step 6: How to Install Android TV from the Bootable USB

- Connect the bootable USB on the machine.
- Then, turn on the computer again.
- Once the system is in use, Android TV managers should come up first. From there, you can simply follow the steps on the screen to finish the installation of Android TV.
- Important: In case you do not want to install the Android TV onto your computer, you can simply load it from the USB straight away.

Step 7: Setting Up Android TV

- After installation (https://biostechnology.net/how-cctv-camera-installation-services-enhance-security-for-your-property/) or loading, follow these steps to set it up.
- Locate a Wi-Fi network and then connect to it.
- Log into your Google Account.
- From there, modify your preferences and add the applications you want to use.

Problem-Solving Guidelines

- In case the USB is unrecognizable, check again whether it is correctly placed and formatted to FAT32.
- When the BIOS cannot be opened, consult the manual of your computer to identify the correct key to use.
- In case the installation runs into issues, double-check whether the image file for the Android TV is correct.

Why Use Android TV from a Bootable USB

It is handy in the sense that you can use your television Android setup anywhere as long as there is a supported device. There is no need to purchase new hardware; this makes it pocket-friendly. And lastly, it is easy to implement updates by changing older versions of the bootable USB.

Conclusion

Bringing the features of a smart TV to any device is easy through the installation of an Android TV on a bootable USB. With the assistance of this guide, it's now possible to experience the advantages of Android TV without having to purchase additional equipment.

Bios Technology (https://biostechnology.net/) is a reputable service provider capable of both installing Android TV on the bootable thumb drive and assisting with tech issues as a whole. Contact us today to access specialist help relevant to your technology problems.

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Quick Links

Android 13 for TV

Note: Android 13 for TV is a developer release only and won't be delivered to consumer devices.

Android 13 adds further customizations to improve the user experience and increase compatibility with TV devices. Some of the highlights for this release include performance and quality improvements, and continued advancements to how users interact with Android TV.

Refer to the Android 13 documentation (/about/versions/13/summary) for a full list of all of the changes included in Android 13. Note that not all those features apply to TV.

Here are some of the highlights of what's new in Android 13 for TV:

Media & Power

- Anticipatory audio route (/training/tv/playback/audio-capabilities#anticipatory-audio-route) lets apps identify the routed device and supported formats before creating an AudioTrack
- User controls for preferred resolution and refresh rate on supported HDMI source devices
- Power management improvements for low powered standby

Input Control & Accessibility

- Hardware mute switch states are reflected in the system privacy controls (/training/permissions/explaining-access#toggles)
- Updated user controls for Assistant microphone access on the remote
- Global preferences for enabling audio descriptions (/training/tv/accessibility#audio-description) across apps
- New Keyboard Layouts API (/reference/android/view/InputDevice#getKeyCodeForKeyLocation(int)) allows selection of different language layouts for external keyboards

HDMI & Tuner

- Better handling of HDMI state changes on HDMI source devices
- Improved language selection for HDMI source devices
- Tuner HAL 2.0 (https://source.android.com/docs/devices/tv/tuner-framework) with performance optimizations, twin tuner and ISDB-T Multi-Layer support
- Framework for interactive TV use cases as an extension to TIF (https://source.android.com/docs/devices/tv)

How to get started

If you have the ADT-3 Developer Kit (https://store.askey.com/adt-3.html), install a system image by following the instructions in this section. Alternatively, you can use the Android Emulator for TV (/training/tv/get-started/create#run-on-a-virtual-device), which lets you try out some new user interface capabilities like audio routing, keyboard layouts and HDMI state changes.

Install system images manually

To install Android 13, follow these steps:

1. Use the ADT-3 Developer Kit (https://store.askey.com/adt-3.html) for Google TV. The provided system image is for ADT-3 developer devices only.
2. Download the system image listed on this page (#factory-images).

⚠ **Warning:** Before you can flash Android 13, you need to wipe all data on your device. Once you successfully flash the ADT-3 to Android 13, you can't go back to the previous Android 12 build without wiping user data.

3. If needed, back up your device data.
4. Flash the image onto your ADT-3 device (https://developers.google.com/android/images#instructions). Manually flashing a device gives you precise control over the test environment and can be performed with command line tools.

ADT-3 factory images

Device	Download Link	SHA-256 Checl
ADT-3 (Android TV)	adt3-ttt1.230205.001-factory-769c2069.zip	769c2069e5877
ADT-3 (Google TV)	adt3_gtv-ttt1.230205.001.a1-factory-c65fd22c.zip	c65fd22cbca40

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